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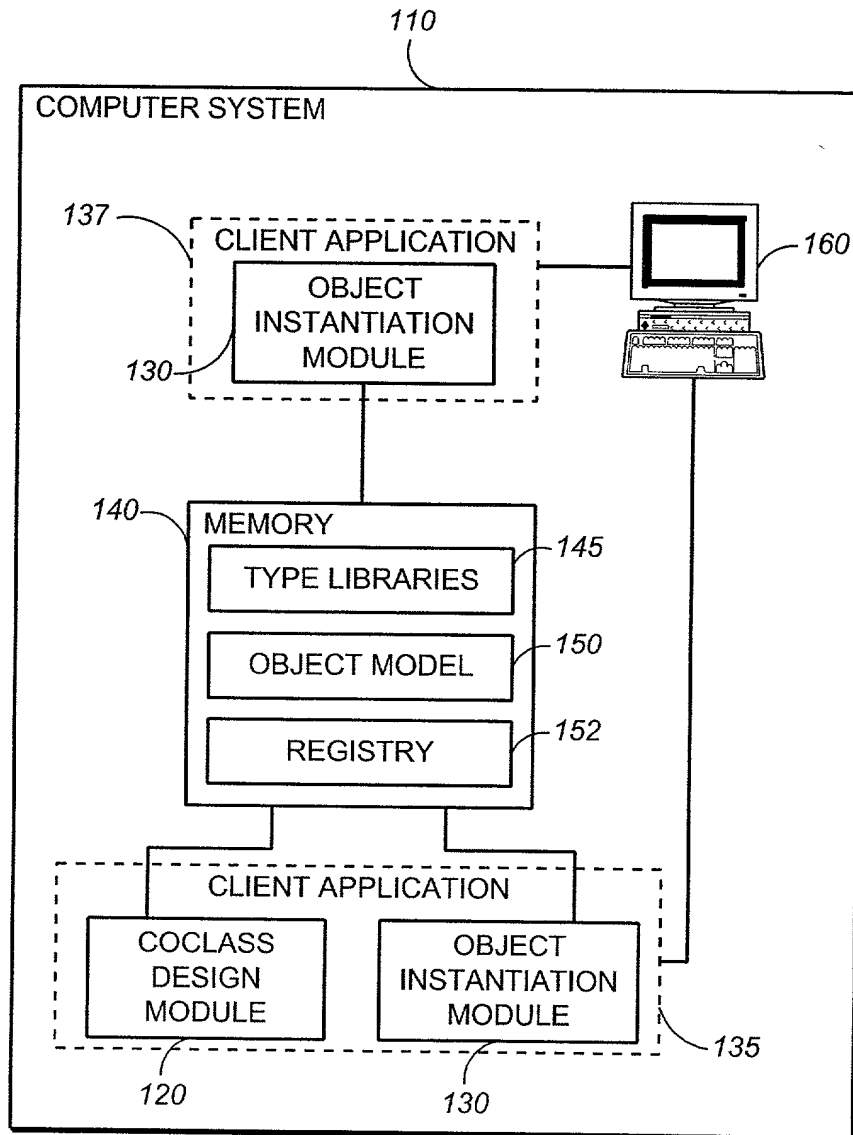


FIG._1

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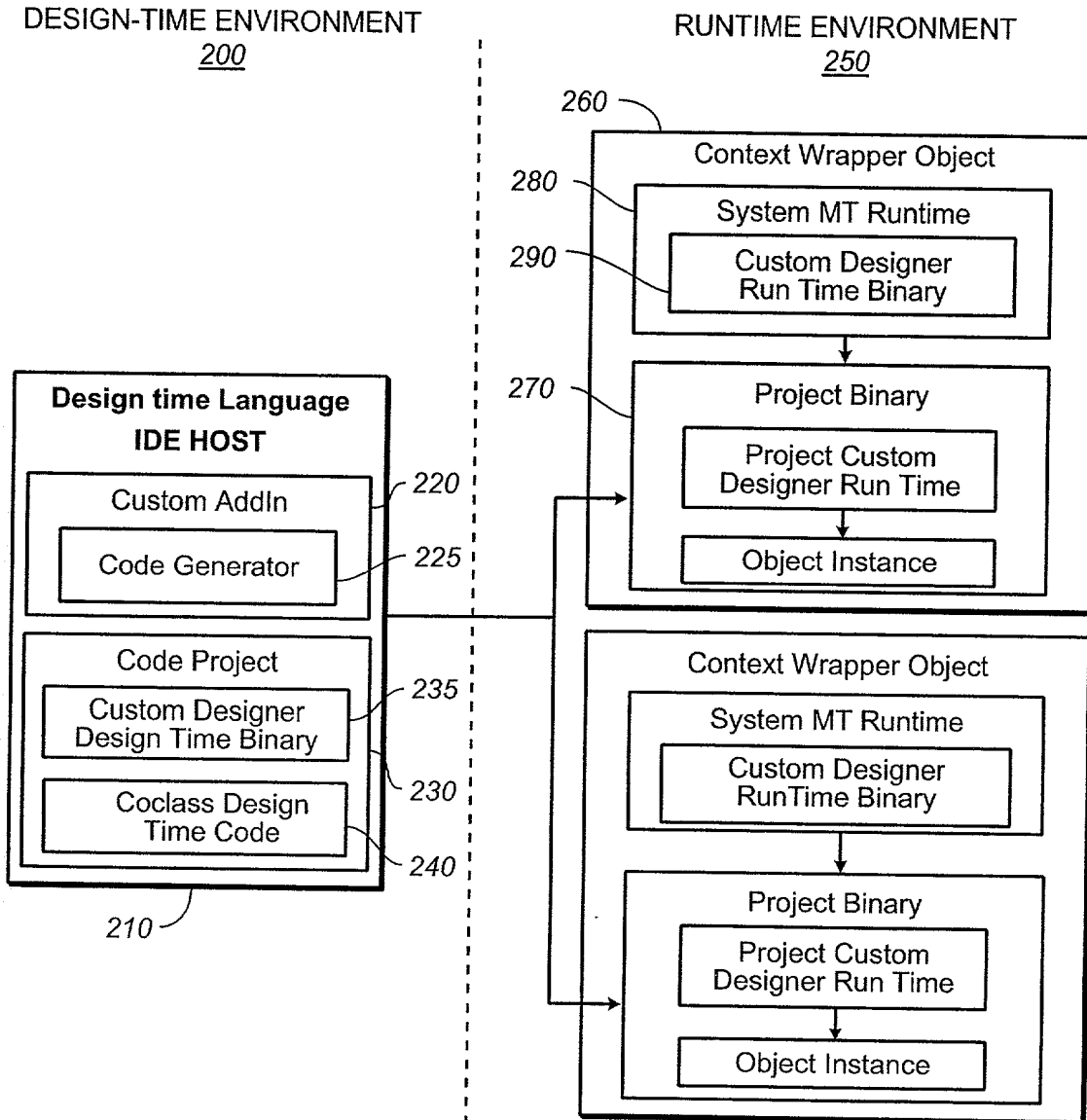


FIG._2

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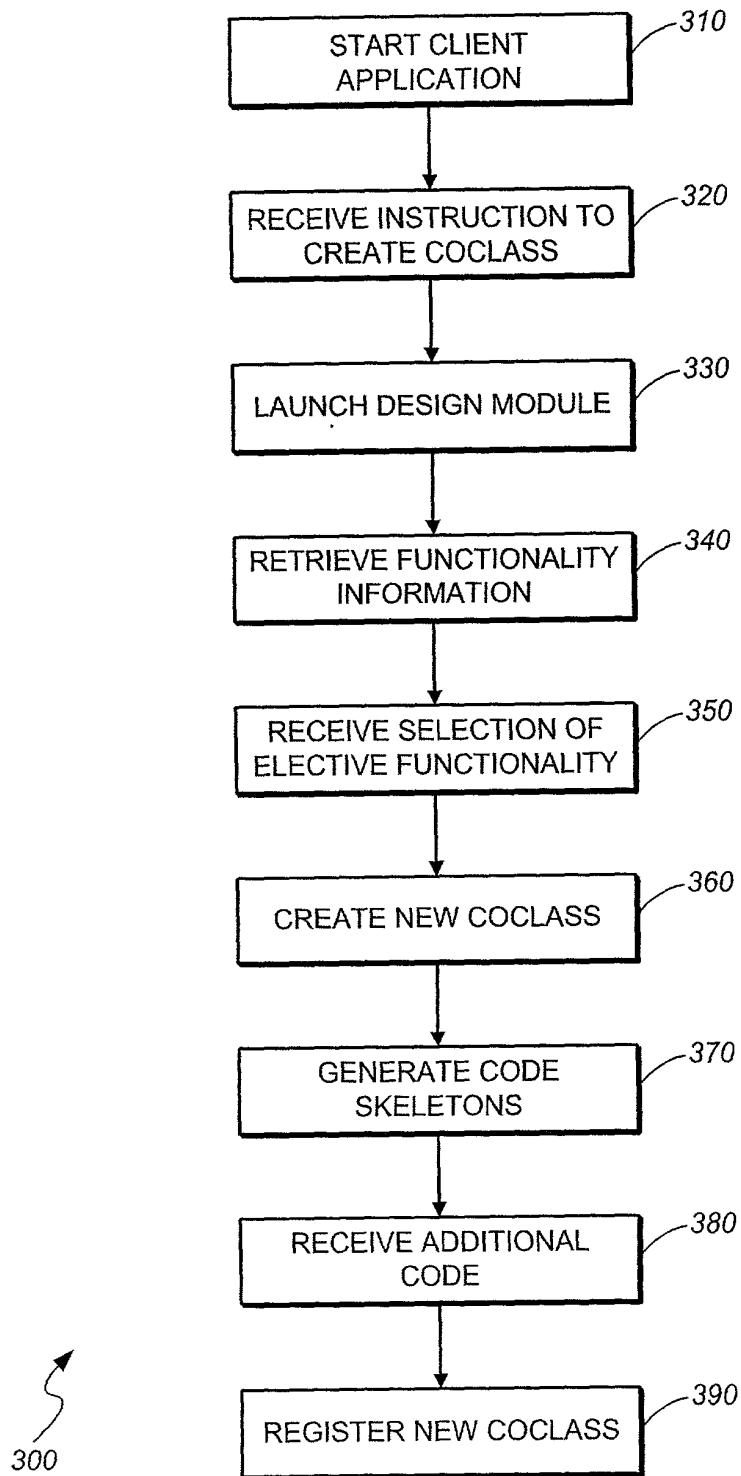


FIG._3

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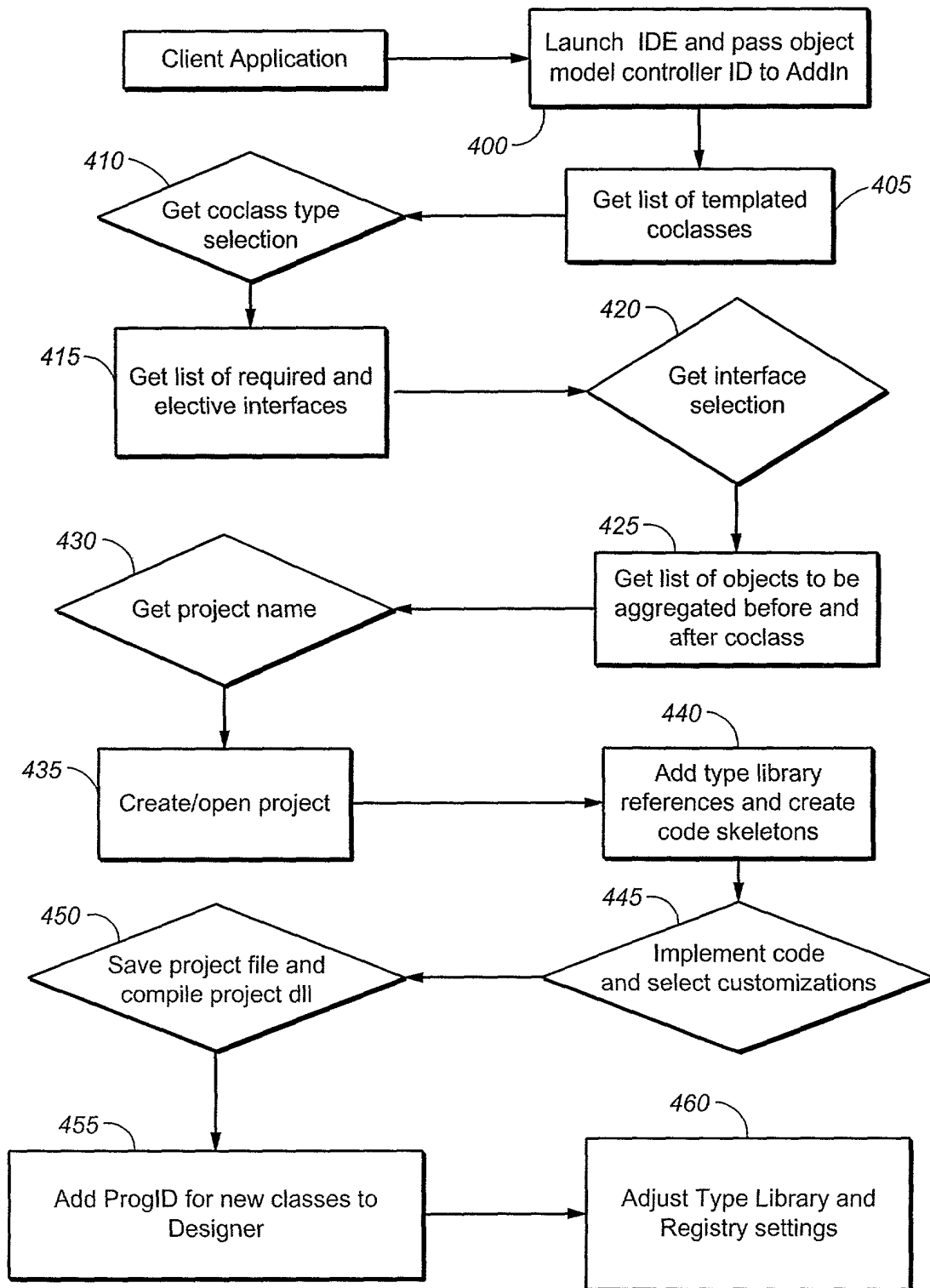
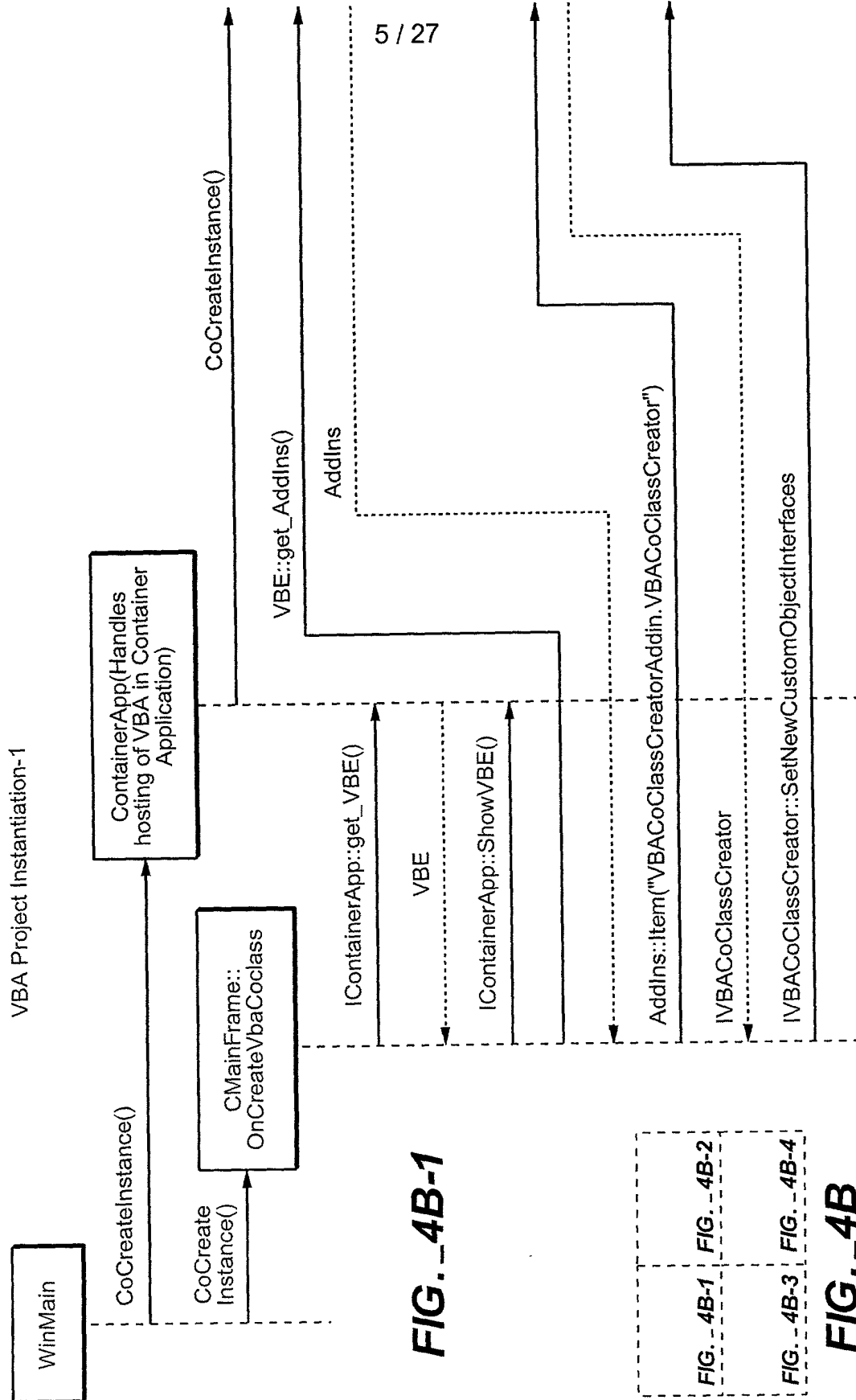
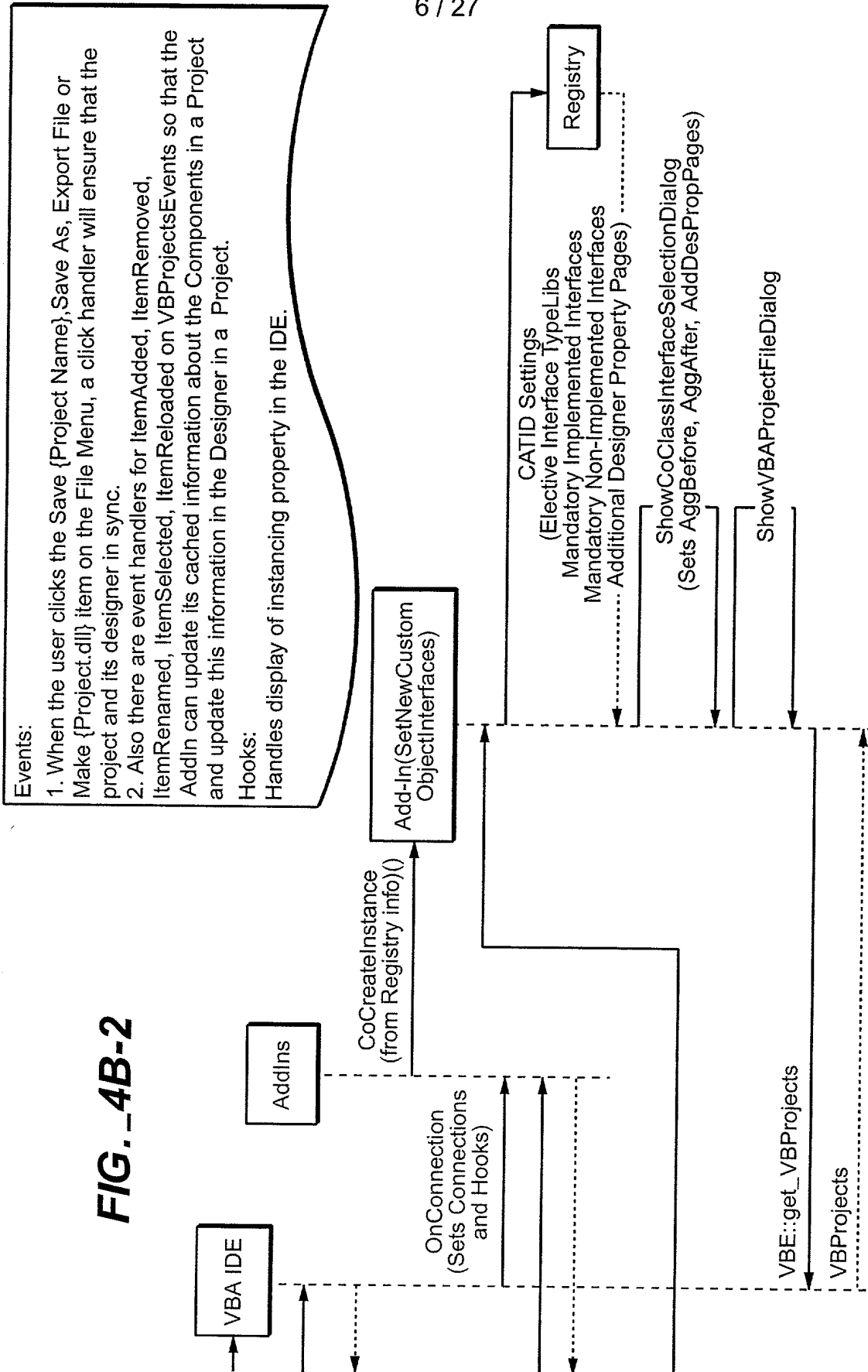


FIG. 4A



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FIG. 4B-2



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To allow alternate storage such as to a database for now it will be necessary to persist the project file to a disk file first because the MT implementation only allows persistence in a disk file.

FIG. 4B-3

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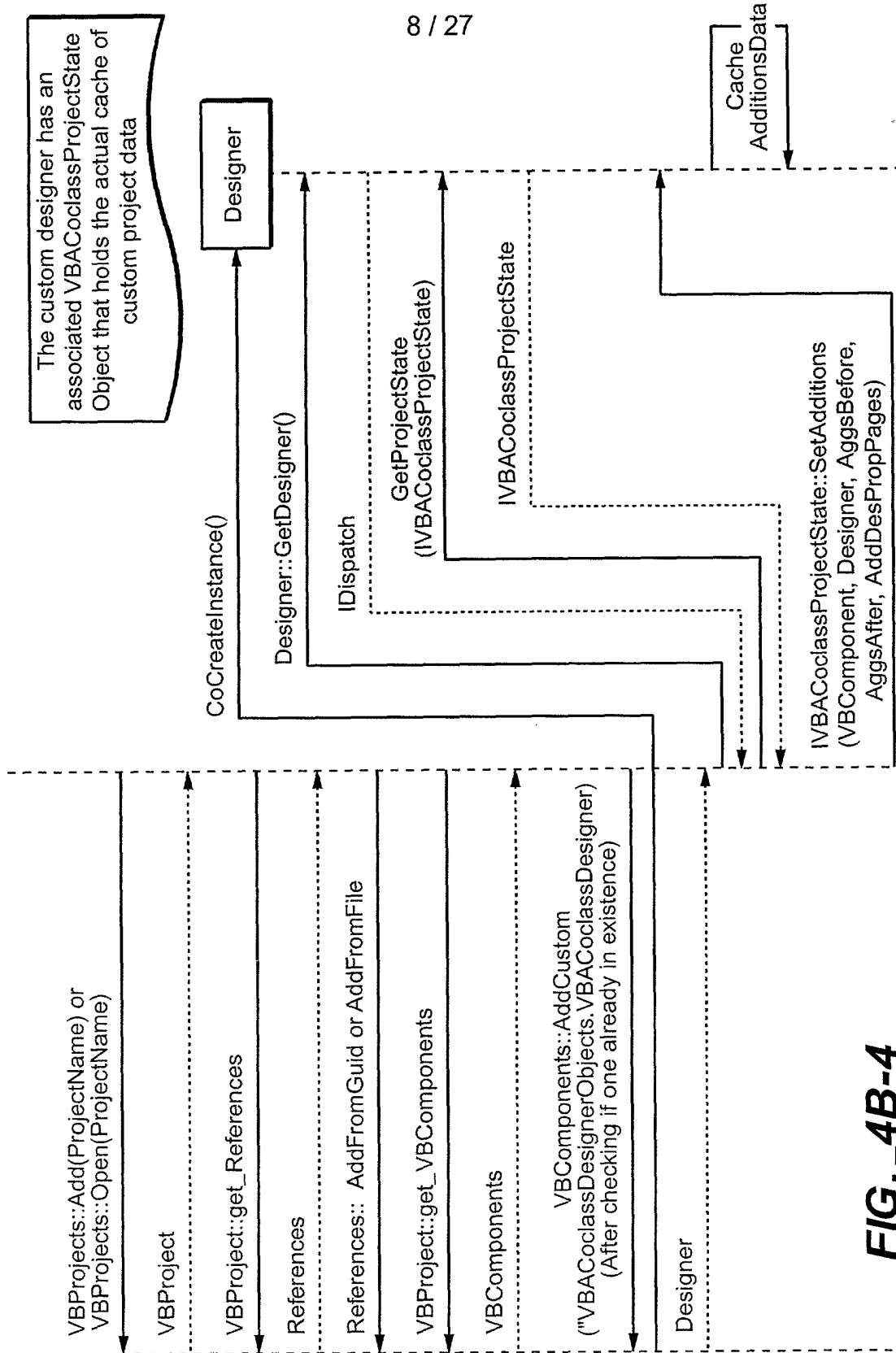


FIG. 4B-4

VBA Project Instantiation-2

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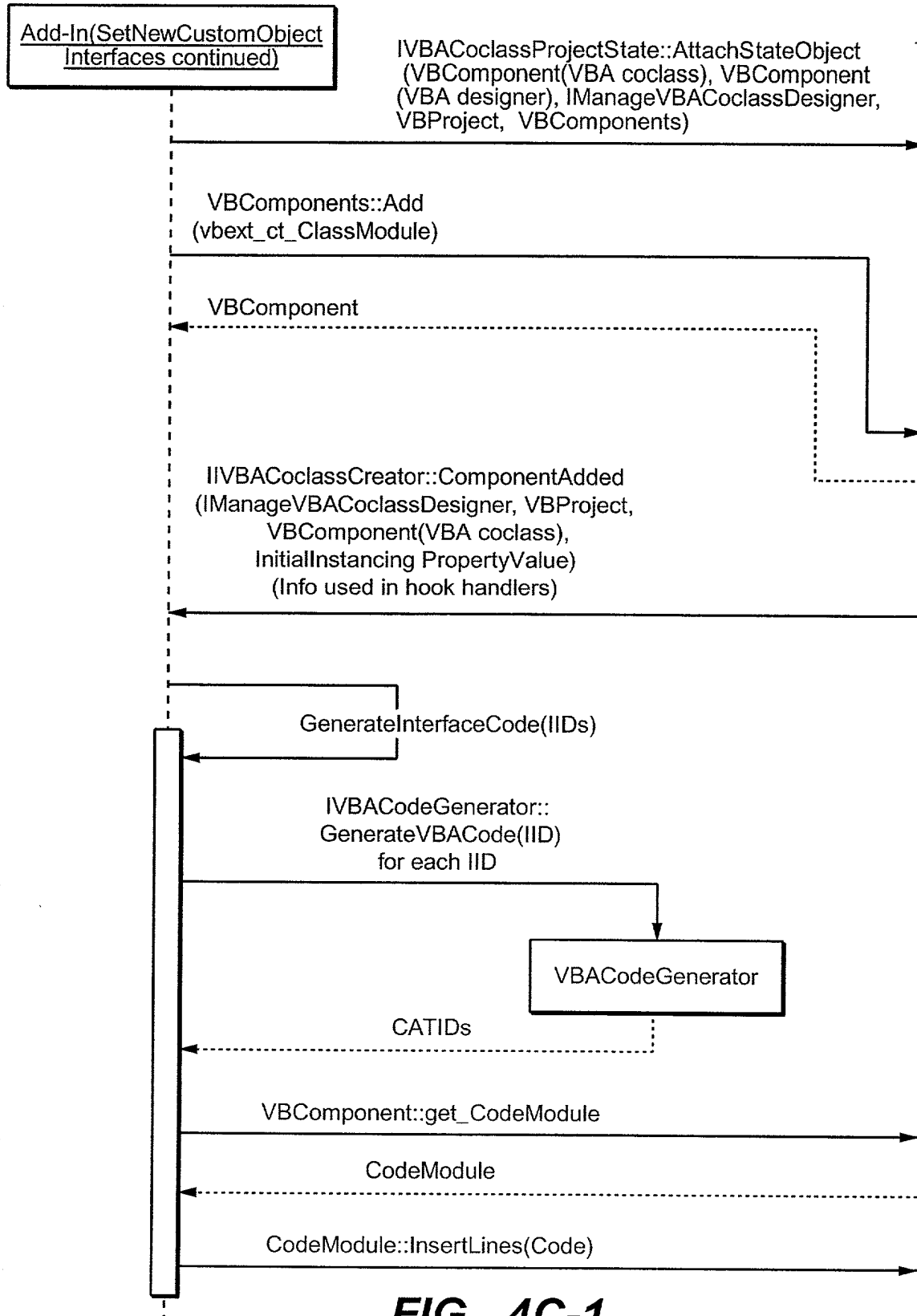


FIG._4C-1

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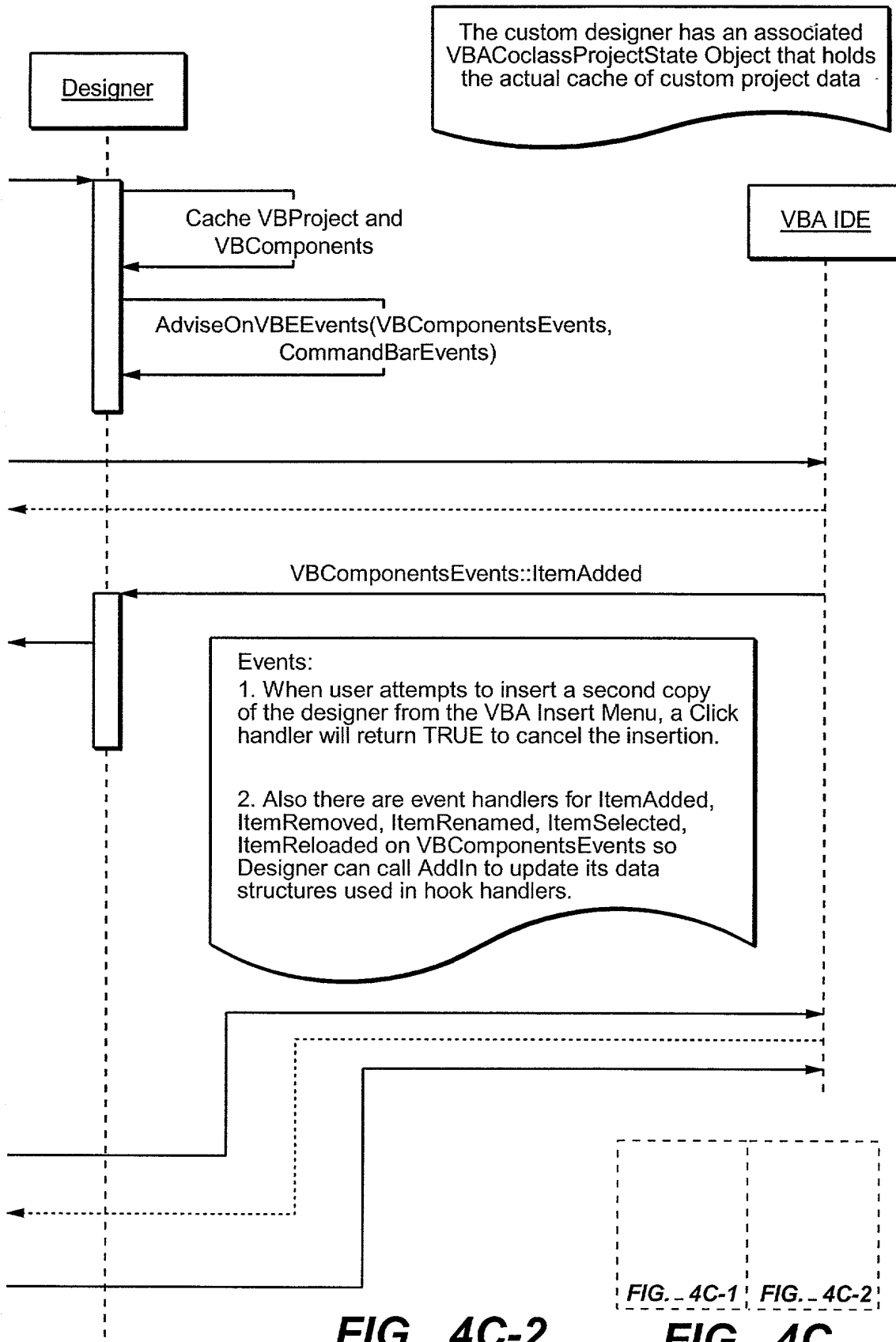


FIG._4C-2

FIG._4C

VBA Project Compilation & Save

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The custom designer has an associated VBACoclassProjectState Object that holds the actual cache of custom project data

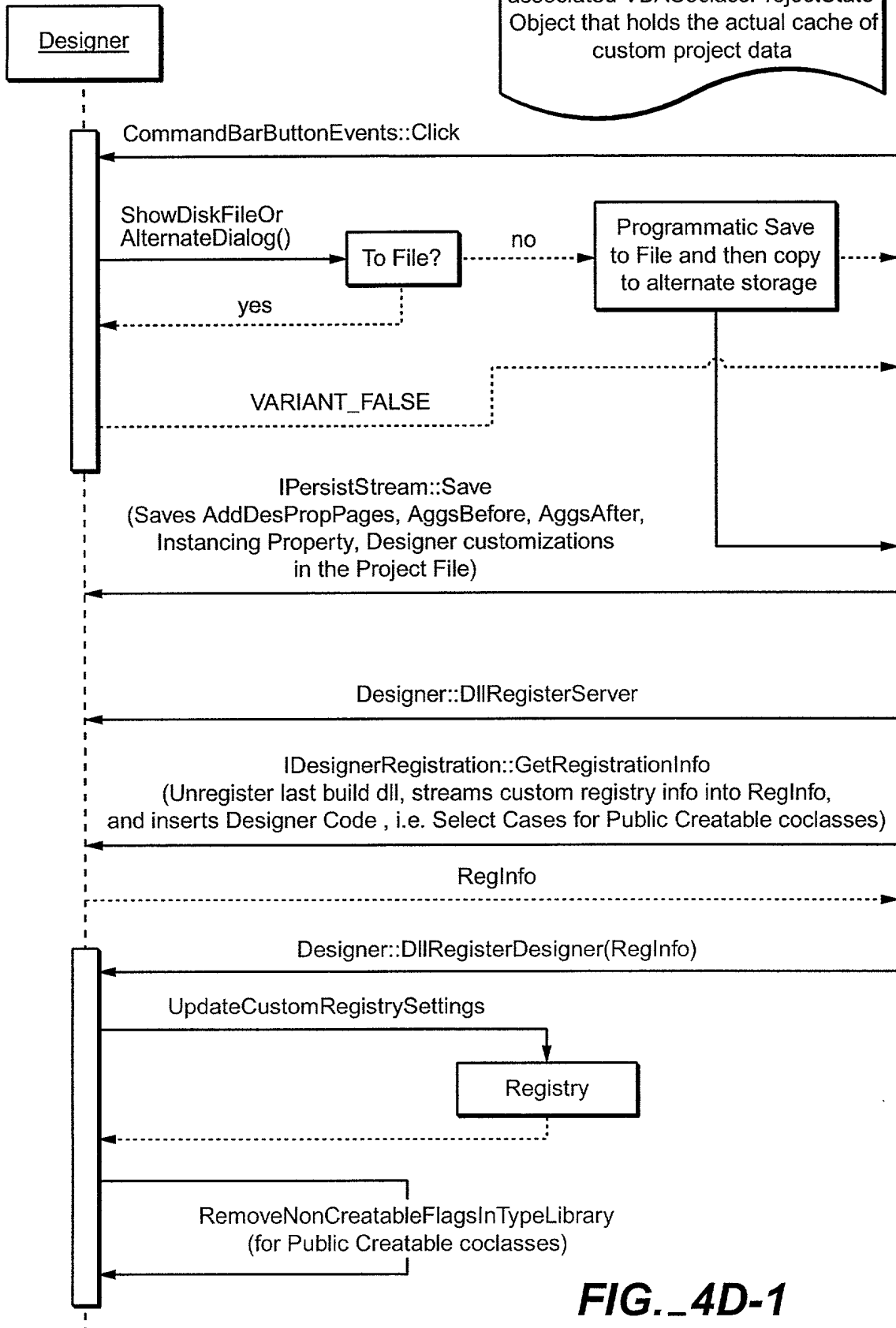


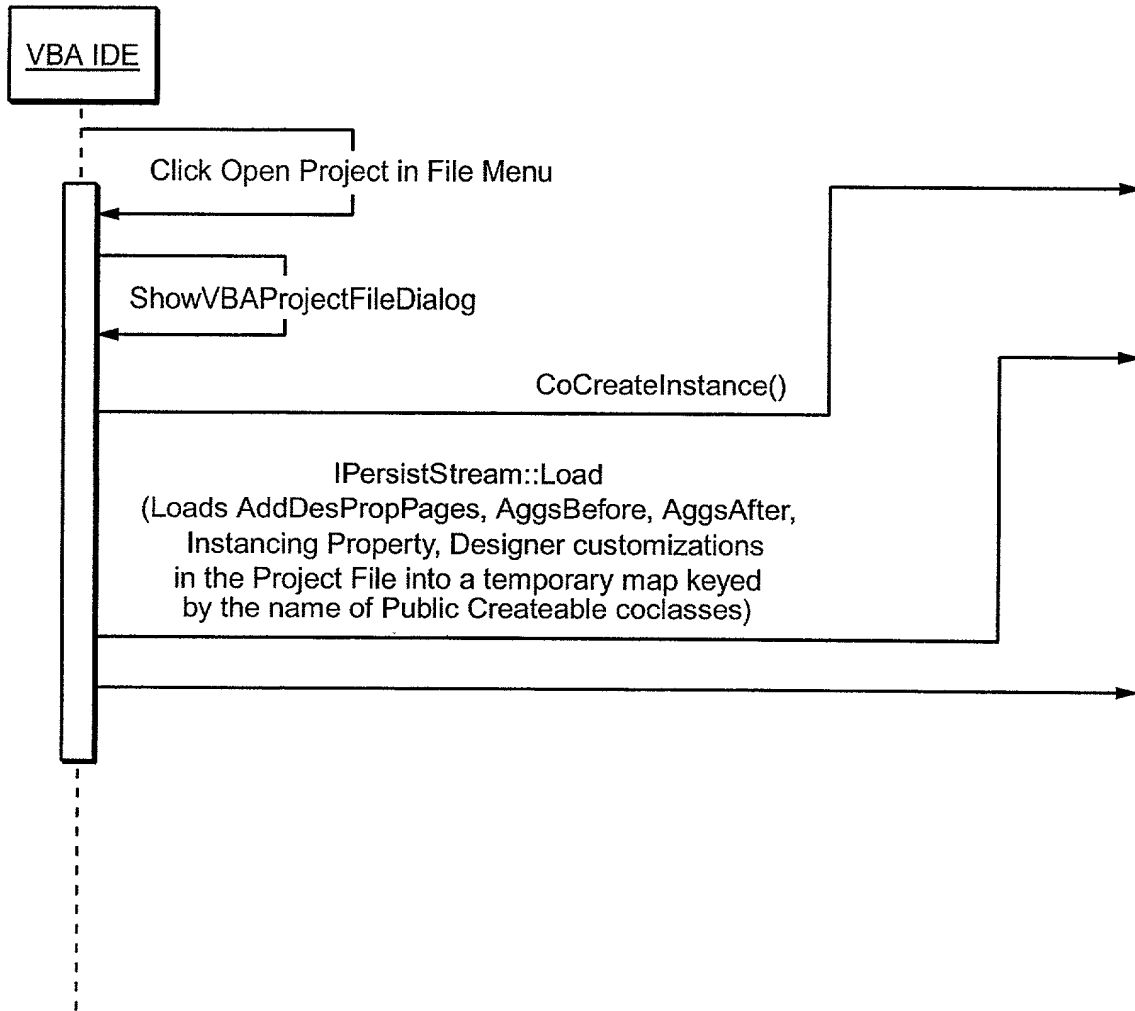
FIG._4D-1





VBA Project Open, Removal

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When the user selects deleting a project from the VBA IDE, the VBProjectsEvents::ProjItemRemoved handler in the AddIn removes the project's custom settings in the data structures in the AddIn. Also when the user inserts/deletes a designer into/from a project, or inserts/deletes a class into/from a project, the VBCommandBarEvents::Click event handler in the AddIn and designer, respectively, add to or delete from the data caches in the AddIn and designer.

FIG._4E-1

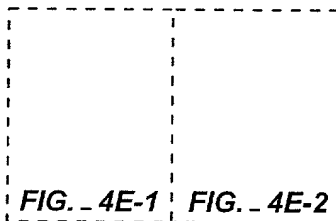
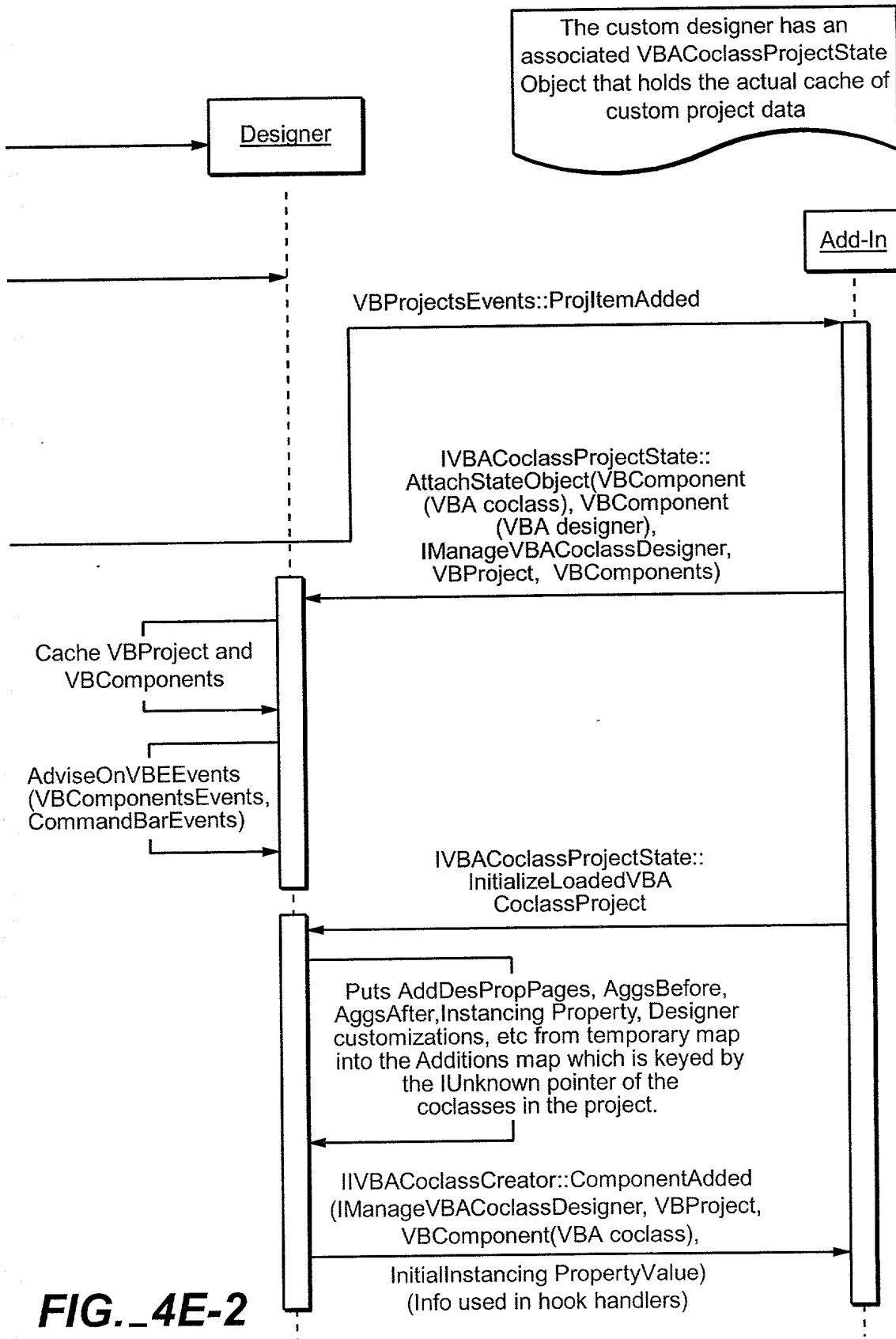


FIG._4E

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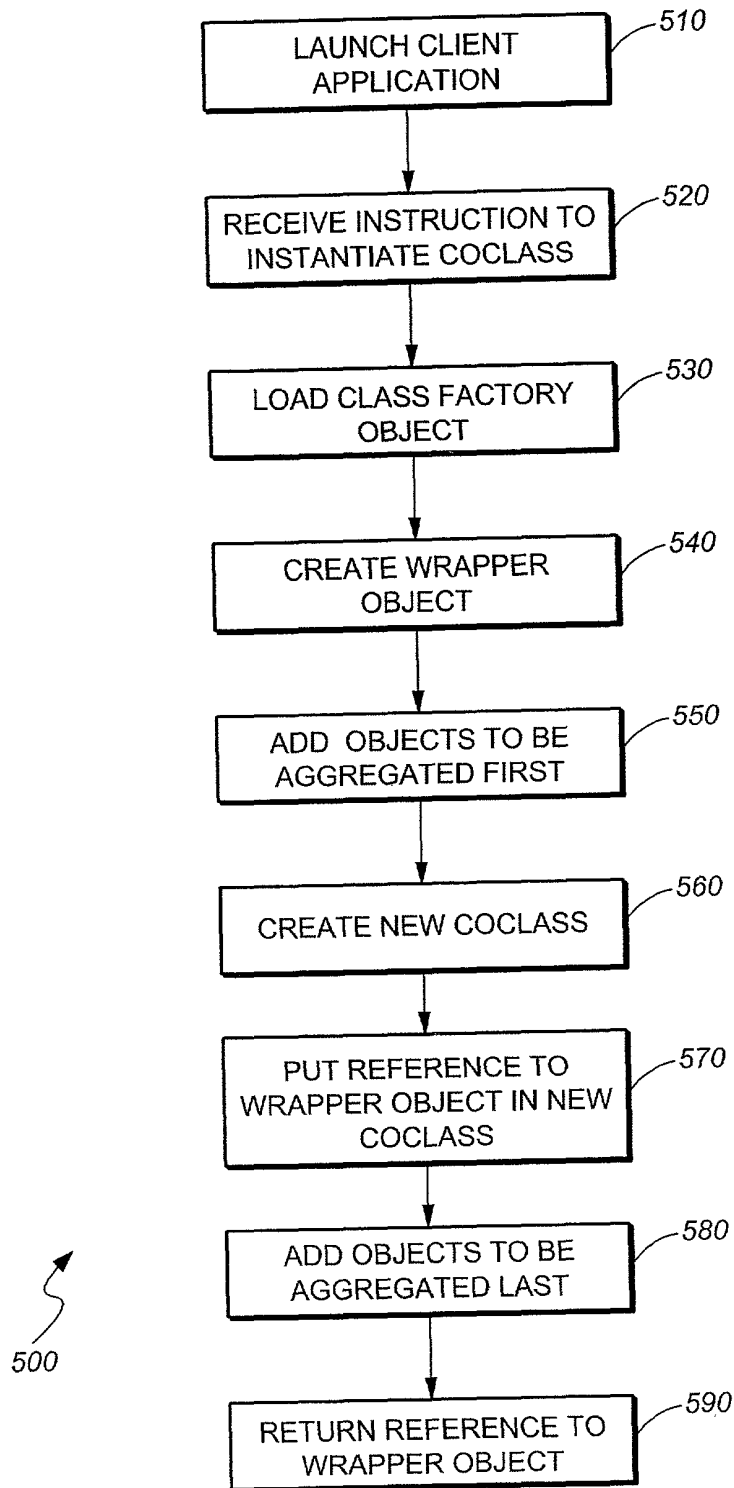


FIG._5

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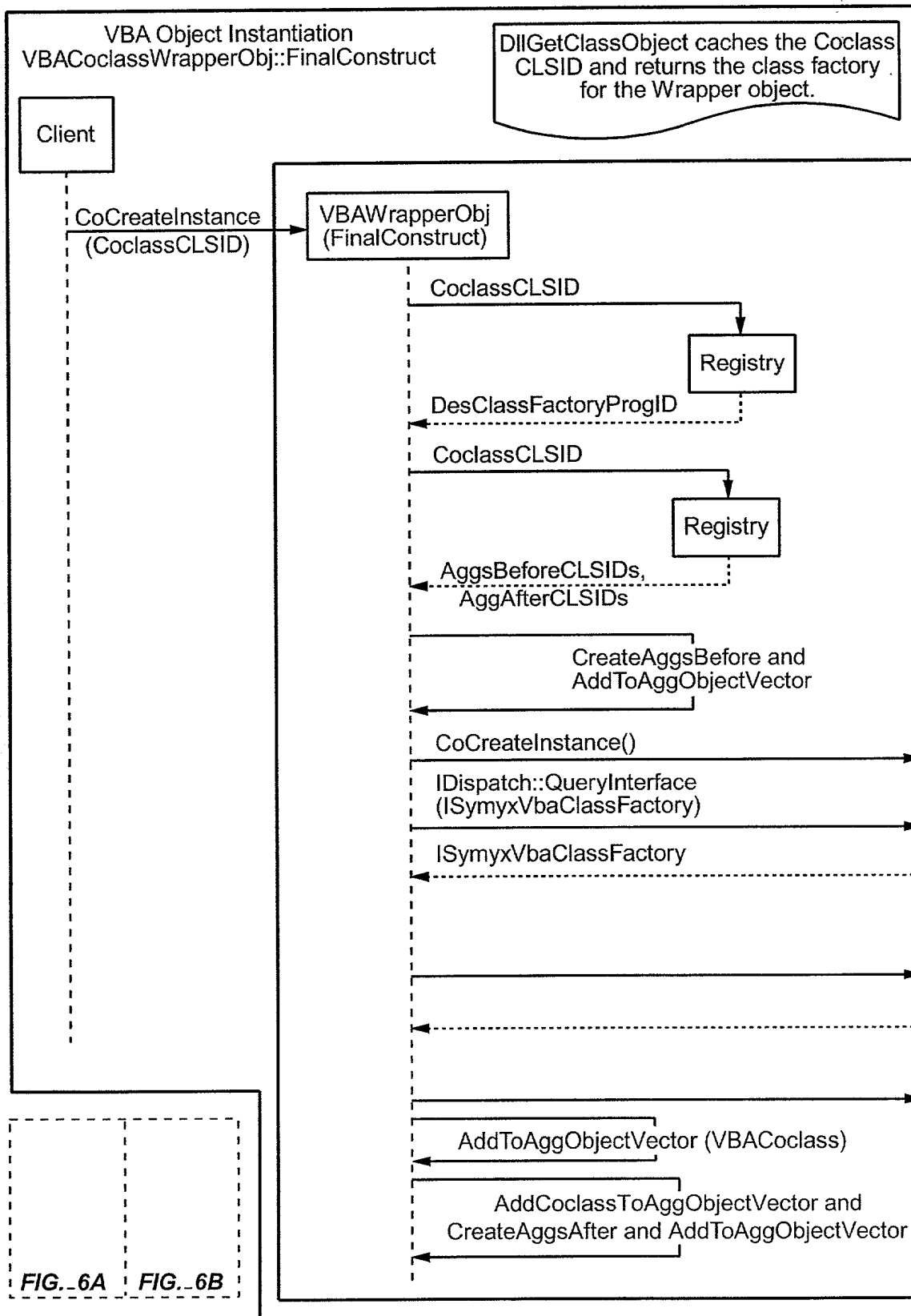


FIG._6

FIG._6A

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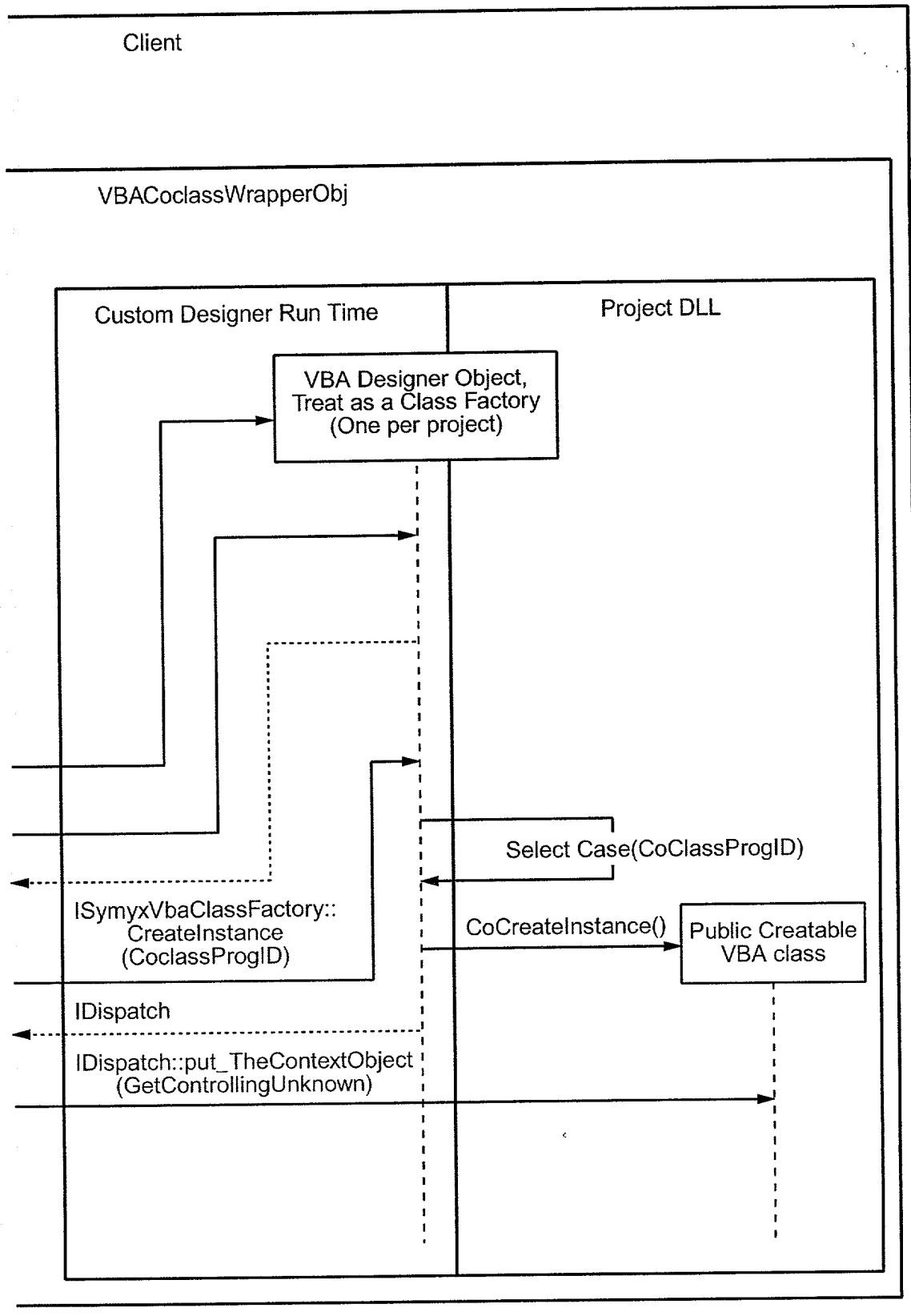


FIG. 6B

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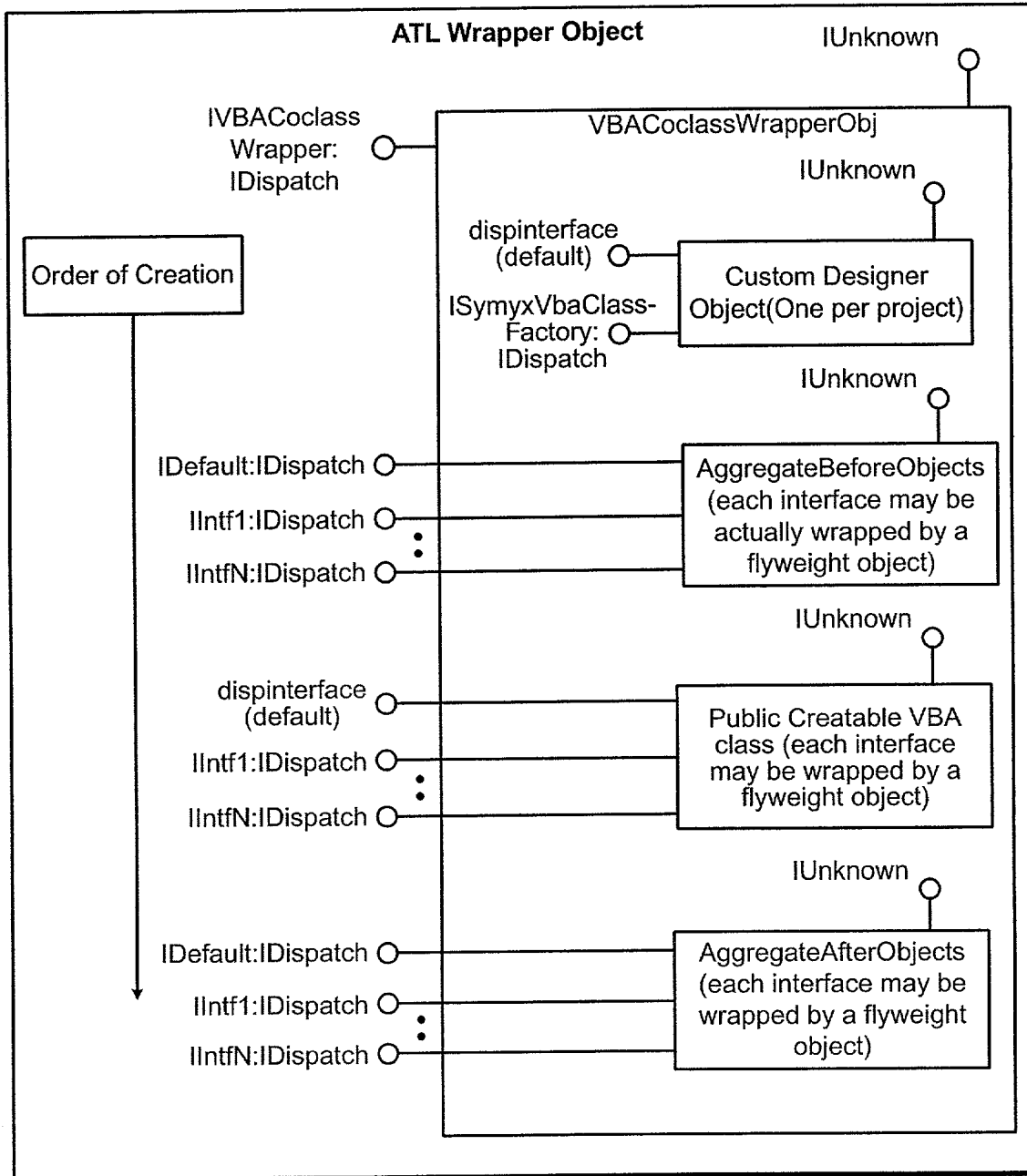


FIG. 7

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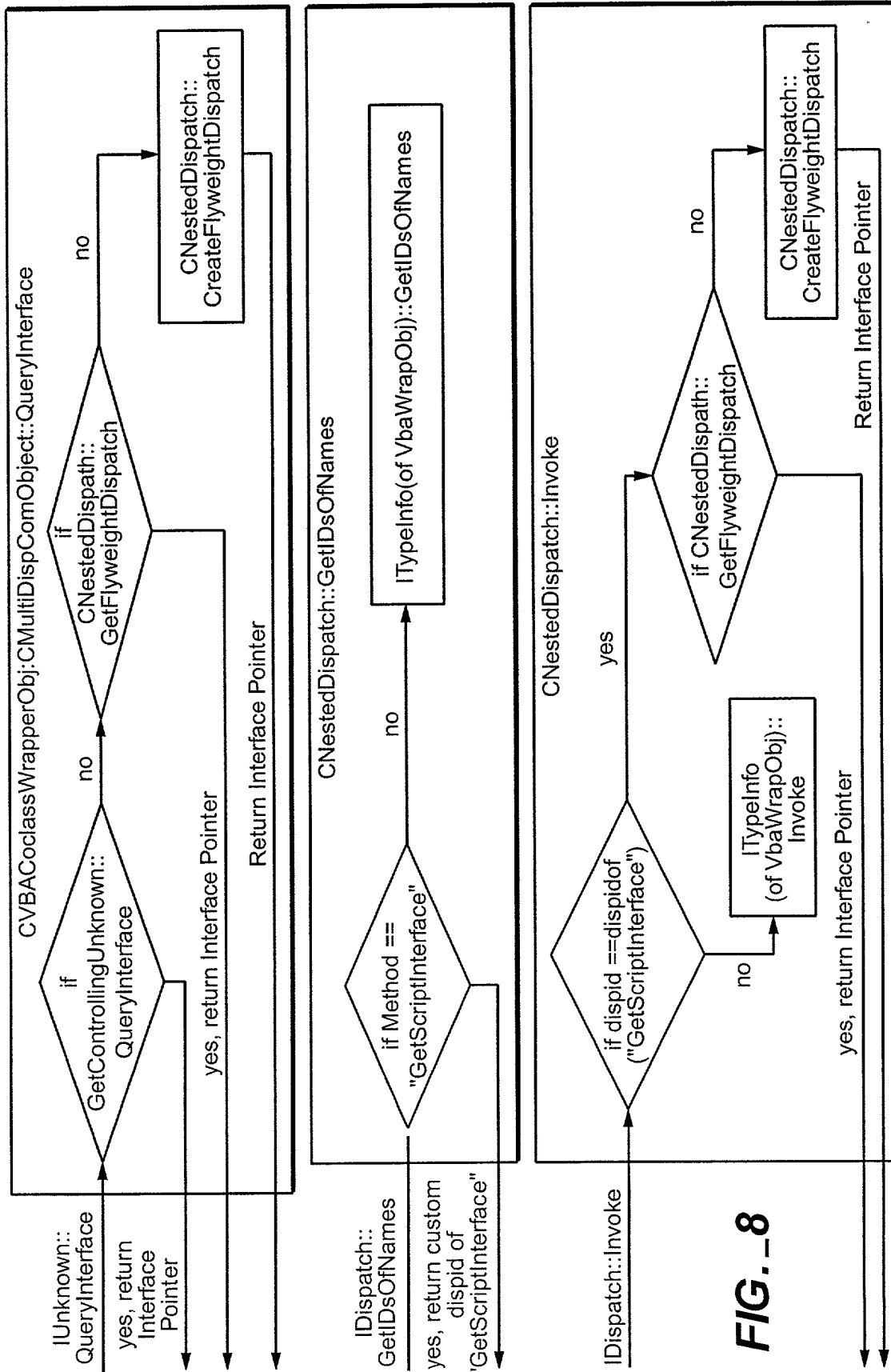


FIG. 8

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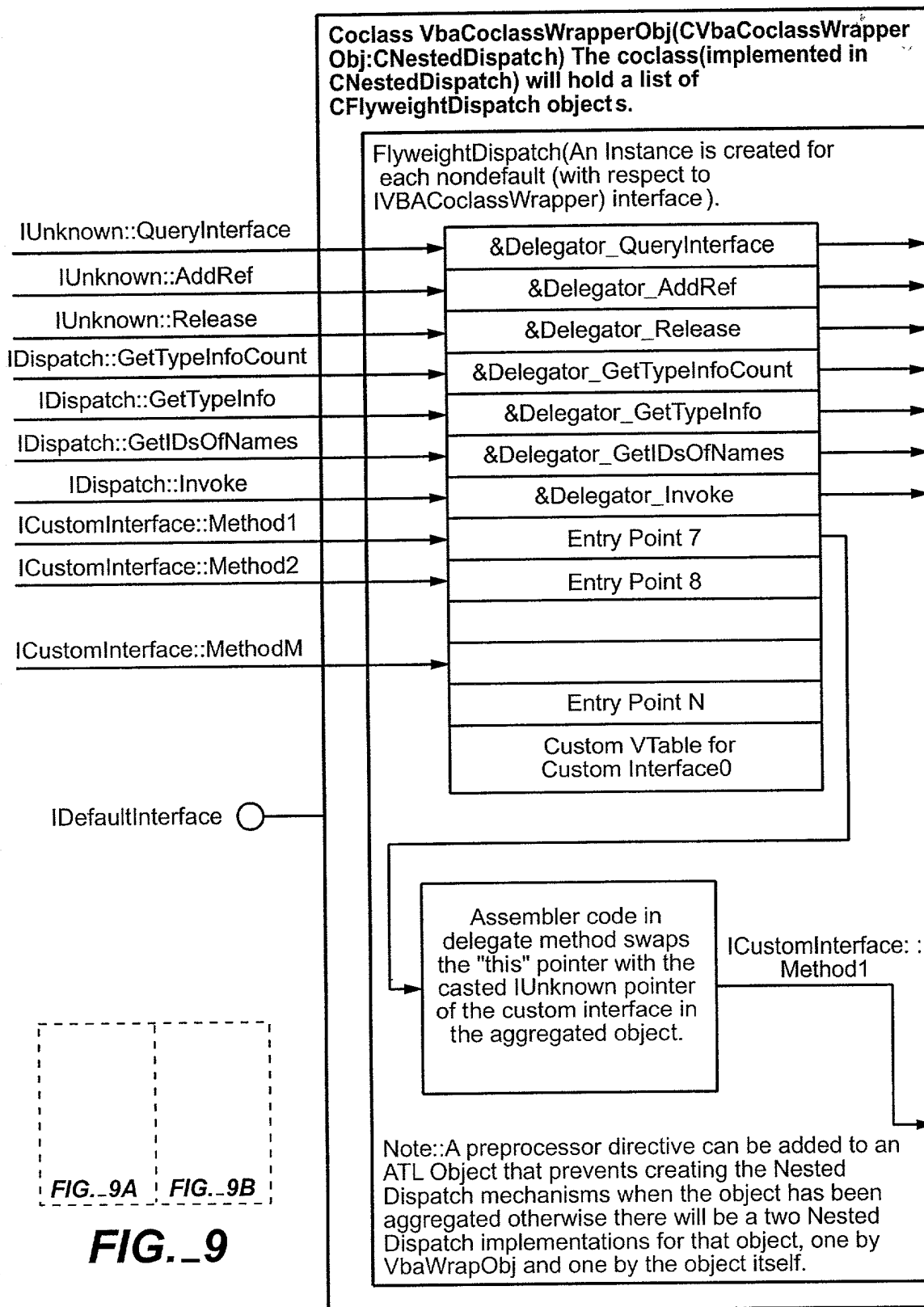


FIG._9A FIG._9B

FIG._9

FIG._9A

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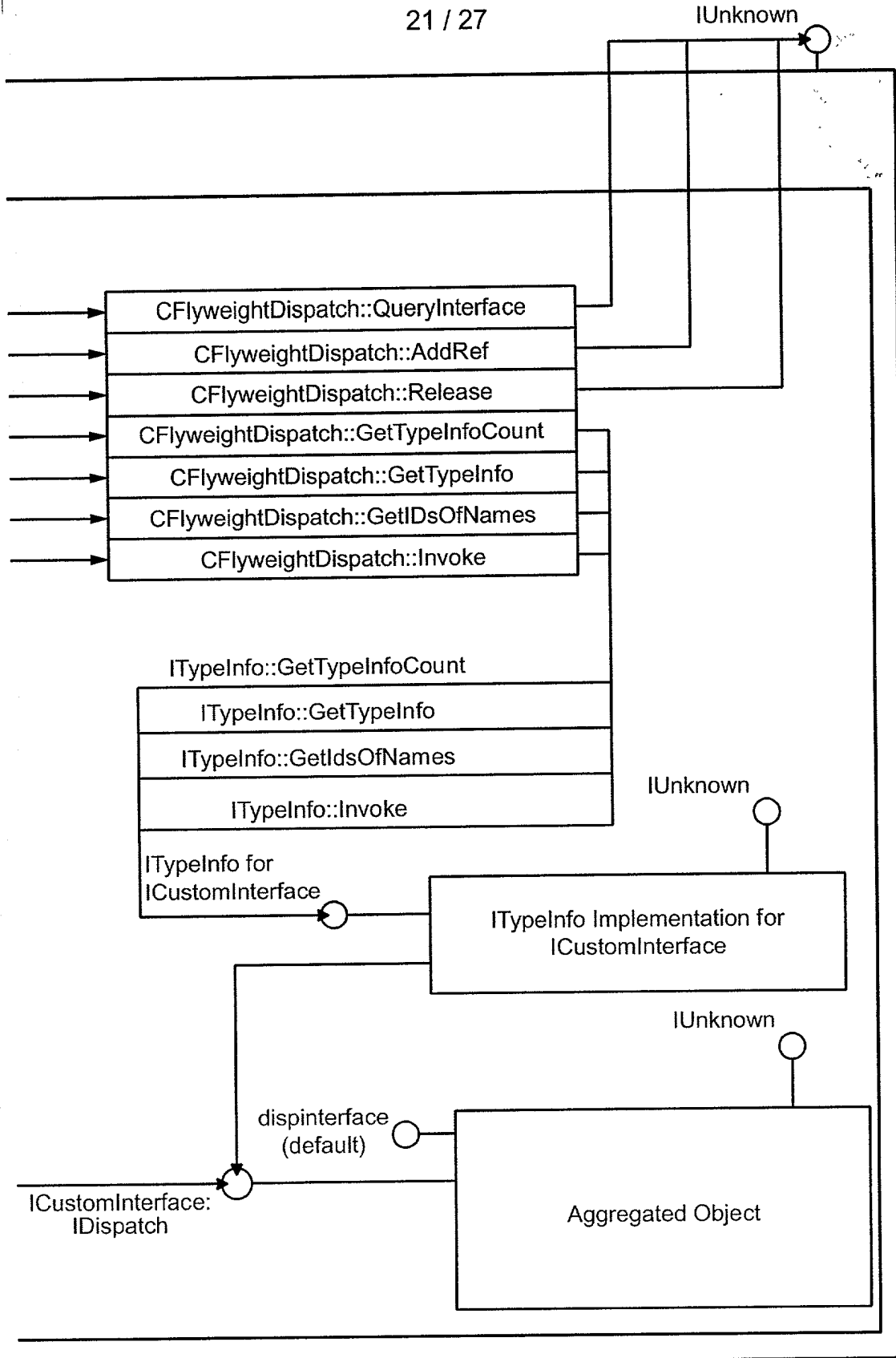


FIG. 9B

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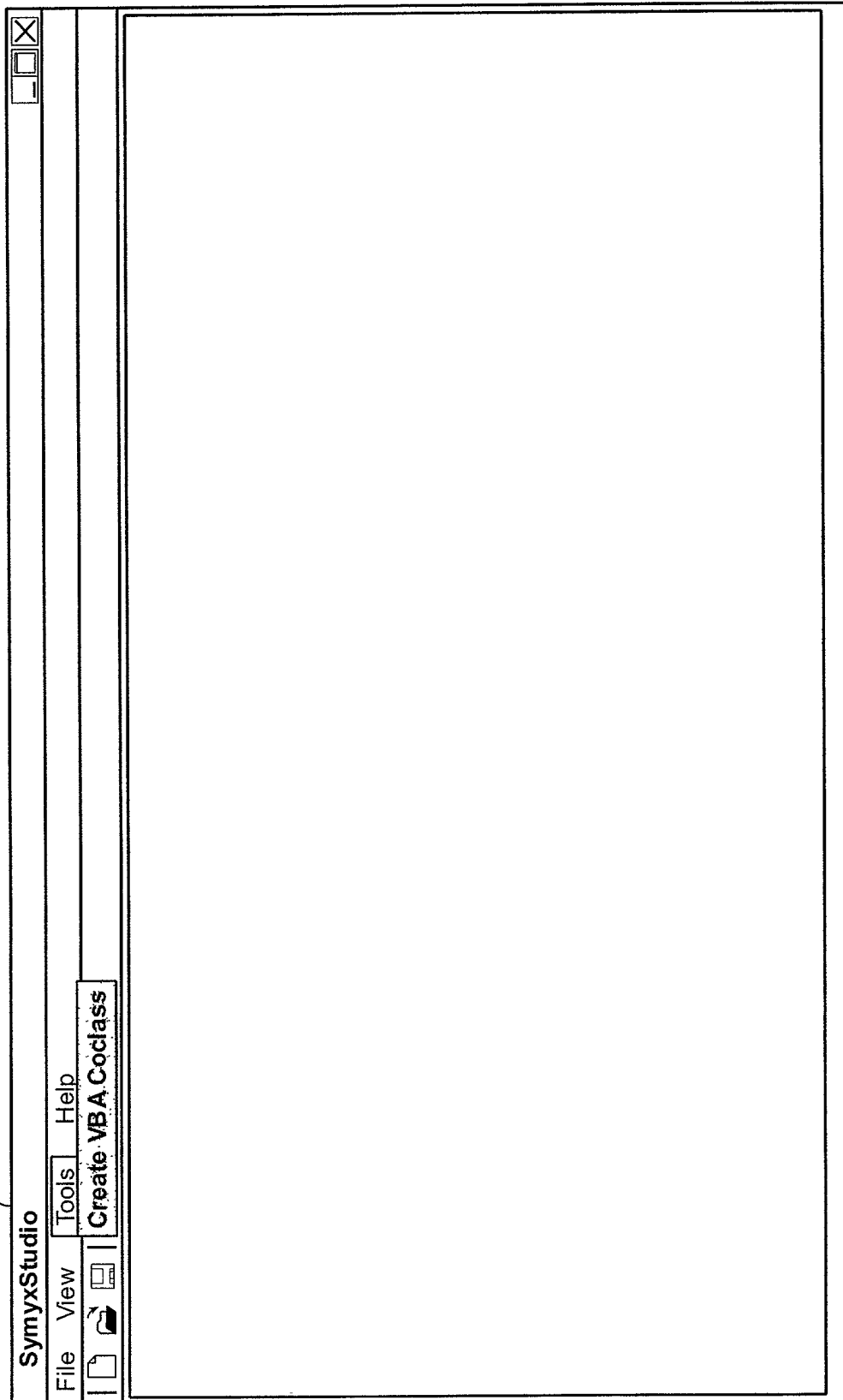


FIG._10A

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Interface Selection Dialog

Impressionist Object Model Controller

Symyx Impressionist Custom Resource

| Interface | Type Library | Status |
|--|--------------|-----------------------|
| <input checked="" type="checkbox"/> INode | iiCore | Mandatory Implemented |
| <input type="checkbox"/> ISupportDynamicProperties | iiCore | Elective |
| <input type="checkbox"/> IHPLCPump | iiHPLCPump | Elective |
| <input type="checkbox"/> IPump | iiPump | Elective |
| <input type="checkbox"/> IDigitalInput | iiDigital | Elective |
| <input checked="" type="checkbox"/> IValve | iiValve | Elective |
| <input type="checkbox"/> IPressureInput | iiPressure | Elective |

OK

Cancel

1020

1022

1024

1026

FIG._10B

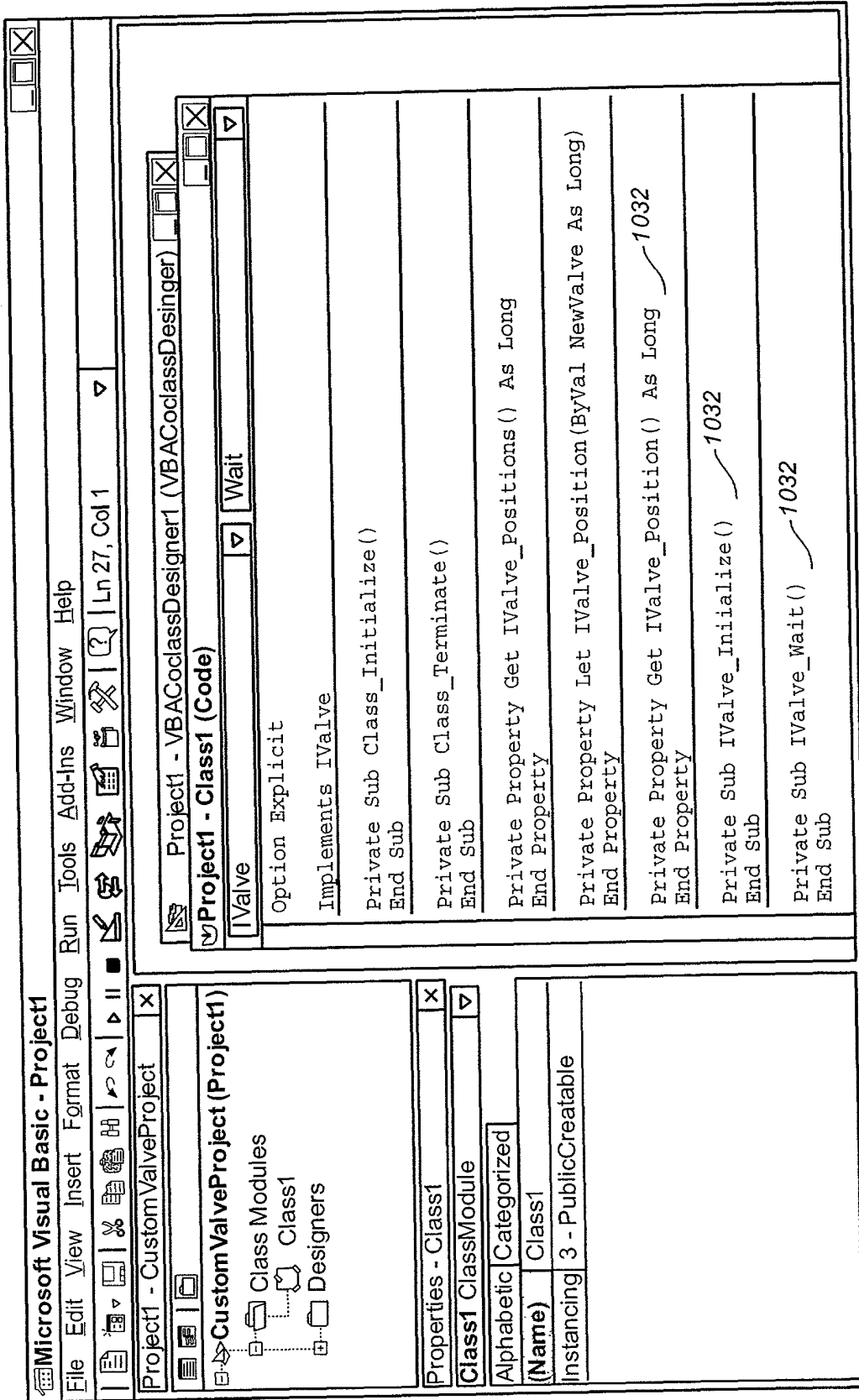
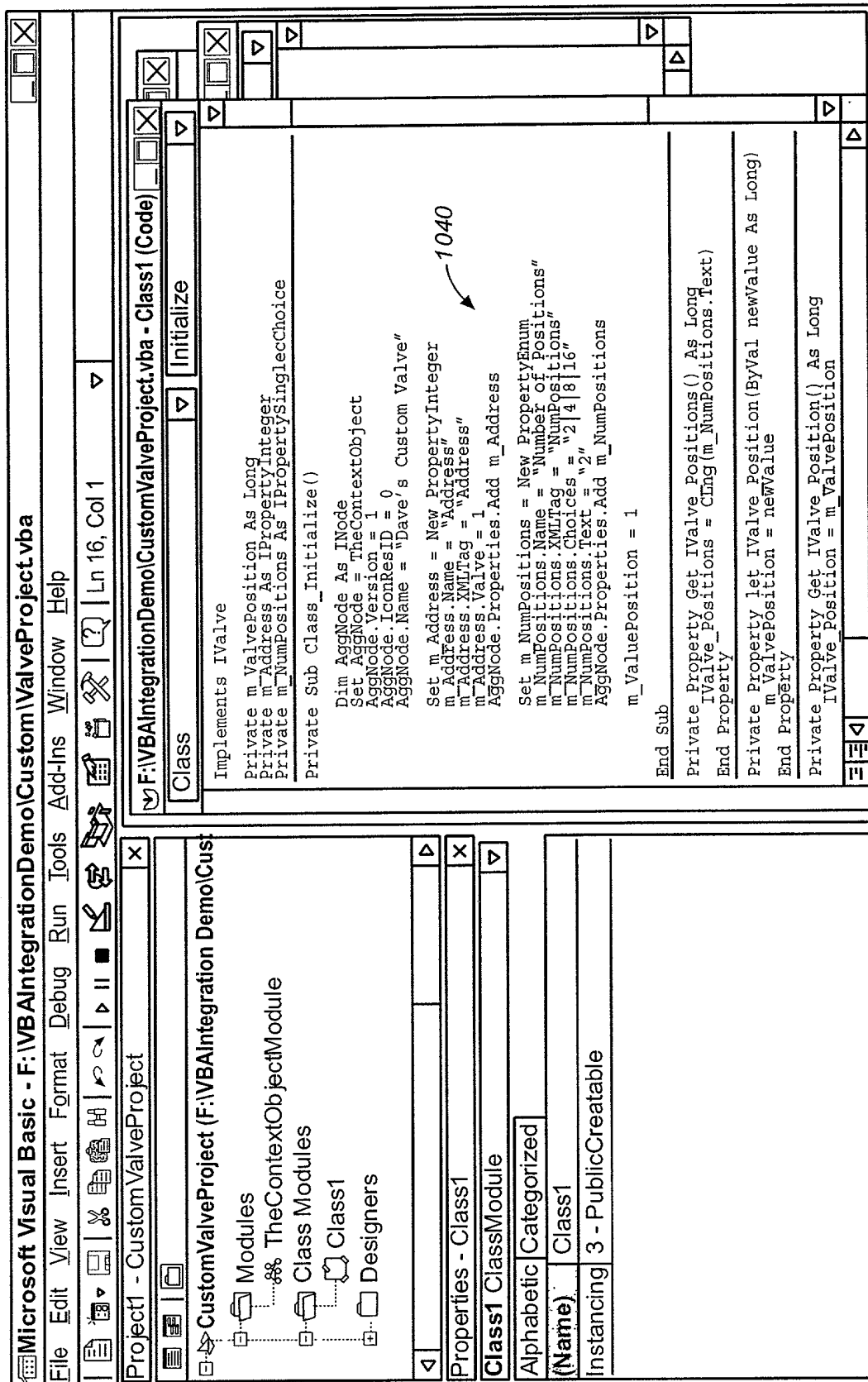


FIG. 10C

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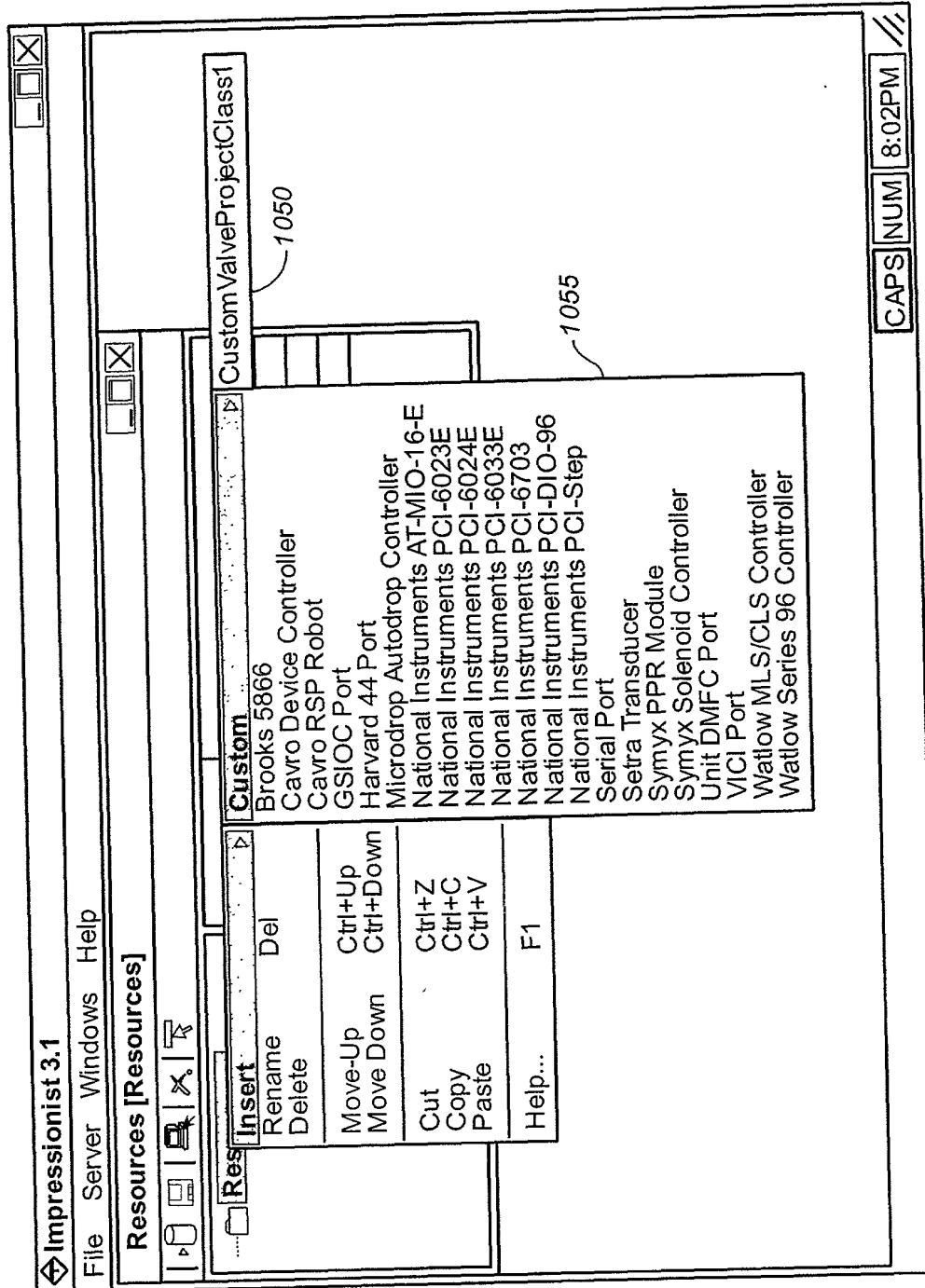


FIG. 10E

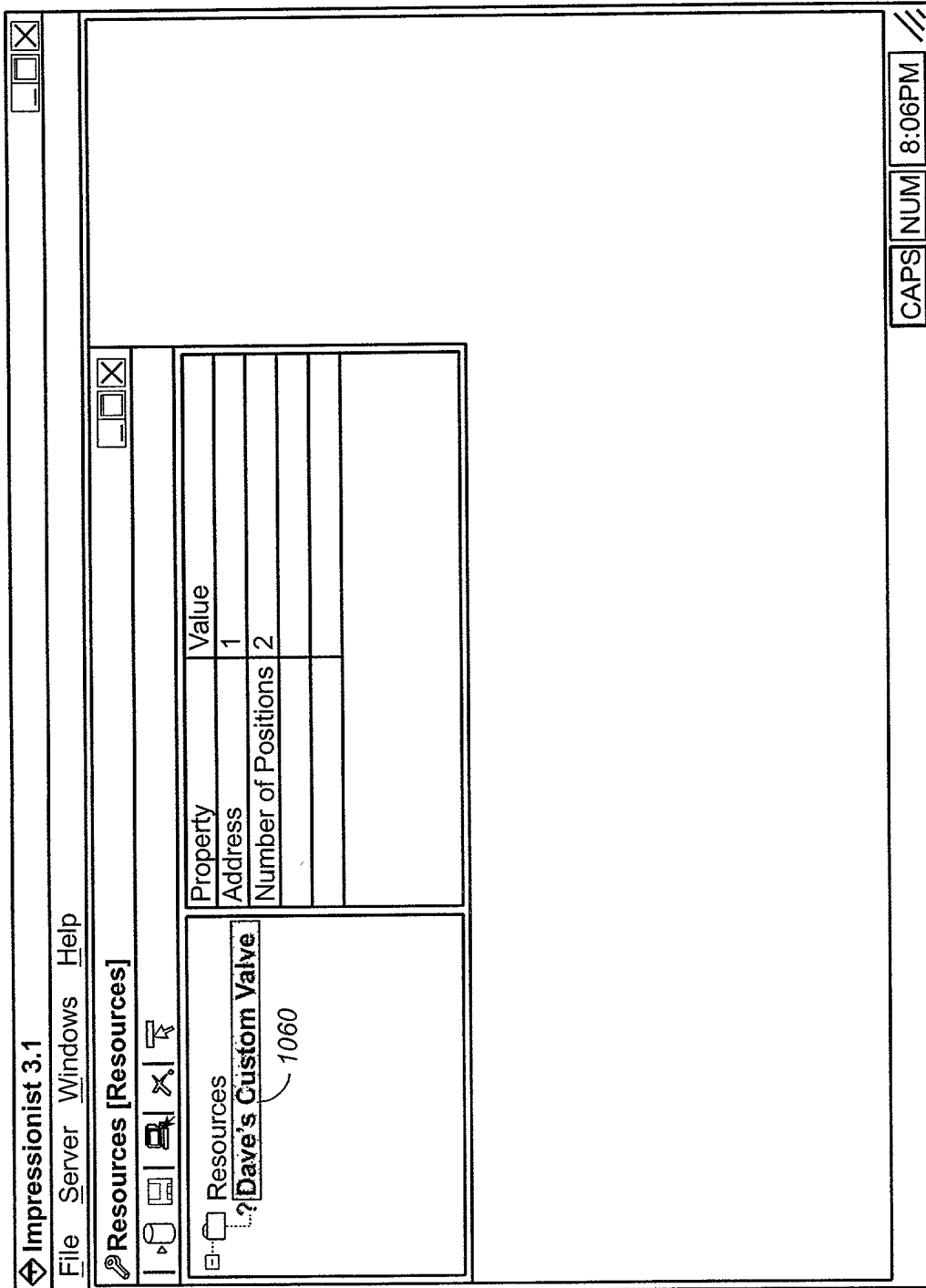


FIG._10F